

Customer Contact		Equipment Information	
Company Name	START FIRST PTE LTD	Description	01400419 / 1203
Address	60 MARSILING ROAD	Order No	
		Ref. ID/Fleet No	
		System details	
		Product Name	ERSTA ACCEL ENERVA C5 SAE 0W-20
		Additional details	
Contact number	SINGAPORE 739107		
Email	63633383@startfirst.sg		
Attention	KELVIN LOH		

Sample Information		1	
Lab Order Number	L181036		
Date Received	06/11/2020		
Date Tested	10/11/2020		
Date Reported	10/11/2020		
Lubricant Used	ERSTA ACCEL ENERVA C5 SAE 0W-20		
Fuel Used			
Equipment Life (hours)			
Oil Life (hours)			
Oil Added (L)	0		
Sampling Date	06/11/2020		
Lubricant Condition	Normal		

Test Parameters		1	
Physical Properties			
Viscosity 100°C mm ² /s	ASTM D7279-14A	42.20	
Viscosity 40°C mm ² /s	ASTM D7279-14A	0.400	
Viscosity Index	ASTM D2270-10*	180	
Total Base Number mg KOH/g	ASTM D2896-11B	7.76	
Water content % W	ASTM D8604-07*C	0.019	
Flash Point @190°C °C	ASTM D3828-12A	Pass	
Contamination Index (IC) %	ASTM D7896-13	0.1	
Mert of Dispensancy (MD)	ASTM D7896-13	96	
PQ Index (WPI)		6	
Water by Crackle		Pass	
Sulphated Ashes %	ASTM D874-13A	0.75	
Evaporation loss by Noack % W	ASTM D5800-15B	11.40	
Wear / Contaminants			
Fe ppm			
Cu ppm			
Cr ppm			
Pb ppm			
Si ppm			
Sr ppm			
Additives			
P %			
Zn %			
Ca %			

Element Analysis, ppm		1	
Iron ppm	ASTM D5185-09	<1	
Lead ppm	ASTM D5185-09	<1	
Copper ppm	ASTM D5185-09	<1	
Chromium ppm	ASTM D5185-09	<1	
Aluminium ppm	ASTM D5185-09	<1	
Nickel ppm	ASTM D5185-09	<1	
Silver ppm	ASTM D5185-09	<1	
Tin ppm	ASTM D5185-09	<1	
Silicon ppm	ASTM D5185-09	2	
Boron ppm	ASTM D5185-09	192	
Sodium ppm	ASTM D5185-09	2	
Phosphorus ppm	ASTM D5185-09	676	
Zinc ppm	ASTM D5185-09	756	
Calcium ppm	ASTM D5185-09	1025	
Barium ppm	ASTM D5185-09	<1	
Magnesium ppm	ASTM D5185-09	452	
Vanadium ppm	ASTM D5185-09	<1	
Molybdenum ppm	ASTM D5185-09	<1	

SGS DIAGNOSIS REMARKS

Based on analysis results, the oil is fit for further use. Please submit sample as per schedule. We will review the results in the next sample.

Customer Contact		Equipment Information	
Company Name	START FIRST PTE LTD	Description	01400419 / 1202
Address	60 MARSILING ROAD	Order No	
		Ref. ID/Fleet No	
		System details	
		Product Name	ERSTA ACCEL EVEREX C3 SAE 5W-30
Contact number	SINGAPORE 739107		
Email	63633383@startfirst.sg		
Attention	KELVIN LOH		

Sample Information		1	
Lab Order Number	L181035		
Date Received	06/11/2020		
Date Tested	10/11/2020		
Date Reported	10/11/2020		
Lubricant Used	ERSTA ACCEL EVEREX C3 SAE 5W-30		
Fuel Used			
Equipment Life (hours)			
Oil Life (hours)			
Oil Added (L)	0		
Sampling Date	06/11/2020		
Lubricant Condition	Normal		

Test Parameters		1	
Physical Properties			
Viscosity 100°C mm ² /s	ASTM D7279-14A	69.13	
Viscosity 40°C mm ² /s	ASTM D7279-14A	12.26	
Viscosity Index	ASTM D2270-10*	178	
Total Base Number mg KOH/g	ASTM D2896-11B	6.84	
Water content % W	ASTM D8604-07*C	0.018	
Flash Point @190°C °C	ASTM D3828-12A	Pass	
Contamination Index (IC) %	ASTM D7896-13	0.1	
Mert of Dispensancy (MD)	ASTM D7896-13	95	
PQ Index (WPI)		5	
Water by Crackle		Pass	
Sulphated Ashes %	ASTM D874-13A	0.79	
Evaporation loss by Noack % W	ASTM D5800-15B	10.1	
Wear / Contaminants			
Fe ppm			
Cu ppm			
Cr ppm			
Pb ppm			
Si ppm			
Sr ppm			
Additives			
P %			
Zn %			
Ca %			

Element Analysis, ppm		1	
Iron ppm	ASTM D5185-09	<1	
Lead ppm	ASTM D5185-09	<1	
Copper ppm	ASTM D5185-09	<1	
Chromium ppm	ASTM D5185-09	<1	
Aluminium ppm	ASTM D5185-09	<1	
Nickel ppm	ASTM D5185-09	<1	
Silver ppm	ASTM D5185-09	<1	
Tin ppm	ASTM D5185-09	<1	
Silicon ppm	ASTM D5185-09	2	
Boron ppm	ASTM D5185-09	192	
Sodium ppm	ASTM D5185-09	2	
Phosphorus ppm	ASTM D5185-09	676	
Zinc ppm	ASTM D5185-09	756	
Calcium ppm	ASTM D5185-09	1025	
Barium ppm	ASTM D5185-09	<1	
Magnesium ppm	ASTM D5185-09	452	
Vanadium ppm	ASTM D5185-09	<1	
Molybdenum ppm	ASTM D5185-09	<1	

SGS DIAGNOSIS REMARKS

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Customer Contact		Equipment Information	
Company Name	START FIRST PTE LTD	Description	01400419 / 1201
Address	60 MARSILING ROAD	Order No	
		Ref. ID/Fleet No	
		System details	
		Product Name	ERSTA ACCEL EVEREX RS SAE 5W-40
Contact number	SINGAPORE 739107		
Email	63633383@startfirst.sg		
Attention	KELVIN LOH		

Sample Information		1	
Lab Order Number	L181034		
Date Received	6/11/2020		
Date Tested	4/12/2020		
Date Reported			
Lubricant Used	ERSTA ACCEL EVEREX RS SAE 5W-40		
Fuel Used			
Equipment Life (hours)			
Oil Life (hours)			
Oil Added (L)	0		
Sampling Date	6/11/2020		
Lubricant Condition	Normal		

Test Parameters		1	
Physical Properties			
Viscosity 100°C mm ² /s	ASTM D7279-14A	66.55	
Viscosity 40°C mm ² /s	ASTM D7279-14A	15.20	
Viscosity Index	ASTM D2270-10*	186	
Total Base Number mg KOH/g	ASTM D2896-11B	8.62	
Water content % W	ASTM D8604-07*C	0.007	
Flash Point @190°C °C	ASTM D3828-12A	Pass	
Contamination Index (IC) %	ASTM D7896-13	0.1	
Mert of Dispensancy (MD)	ASTM D7896-13	100	
PQ Index (WPI)		6	
Water by Crackle		Pass	
Sulphated Ashes %	ASTM D874-13A	1.39	
Evaporation loss by Noack % W	ASTM D5800-15B	9.3	
Pour Point °C	ASTM D07-12	-39	
Wear / Contaminants			
Fe ppm			
Cu ppm			
Cr ppm			
Pb ppm			
Si ppm			
Sr ppm			
Additives			
P %			
Zn %			
Ca %			

Element Analysis, ppm		1	
Iron ppm	ASTM D5185-09	<1	
Lead ppm	ASTM D5185-09	<1	
Copper ppm	ASTM D5185-09	<1	
Chromium ppm	ASTM D5185-09	<1	
Aluminium ppm	ASTM D5185-09	<1	
Nickel ppm	ASTM D5185-09	<1	
Silver ppm	ASTM D5185-09	<1	
Tin ppm	ASTM D5185-09	<1	
Silicon ppm	ASTM D5185-09	5	
Boron ppm	ASTM D5185-09	114	
Sodium ppm	ASTM D5185-09	<1	
Phosphorus ppm	ASTM D5185-09	911	
Zinc ppm	ASTM D5185-09	1015	
Calcium ppm	ASTM D5185-09	2943	
Barium ppm	ASTM D5185-09	<1	
Magnesium ppm	ASTM D5185-09	10	
Vanadium ppm	ASTM D5185-09	<1	

SGS DIAGNOSIS REMARKS

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