

Customer Information

Customer: Petroleum Technologies Group, LLC
Attention: James Kraft
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Component Information

Unit Name: New Coolant - HAVOLINE - CV 50-50 Premix
Manufacturer: Havoline
Unit Type: New Coolant
Coolant Type: HAVOLINE: CV 50-50 CONV

Element Key

Cu Copper	Fe Iron	Al Aluminum	Pb Lead	Sn Tin	Si Silicon	Ca Calcium
Mg Magnesium	Zn Zinc	P Phosphorus	Mo Molybdenum	B Boron	Na Sodium	K Potassium

Sample Information					ASTM D5185 Wear Metals by ICP-OES (ppm)													
Lab ID	Miles	Meter	Date Received	Date Sampled	Cu	Fe	Al	Pb	Sn	Si	Ca	Mg	Zn	P	Mo	B	Na	K
202000000652	0	0	2020-06-18	2020-06-12	0	0	0	0	0	140	27	5	0	1650	1	0	1180	2784
Job ID:					Comments: ANALYSIS INDICATES THE COOLANT CONDITIONS ARE ACCEPTABLE. Based upon the testing performed, this coolant is suitable for continued service. RESAMPLE at the next scheduled interval.													
202000000651	0	0	2020-06-18	2020-06-12	0	0	0	0	0	116	5	1	0	1416	3	0	1080	2491
Job ID:					Comments: ANALYSIS INDICATES THE COOLANT CONDITIONS ARE ACCEPTABLE. Based upon the testing performed, this coolant is suitable for continued service. RESAMPLE at the next scheduled interval.													

Fluid Properties and Contaminants																
Lab ID	Nitrites (ppm)	Color	Clarity	D1287 pH	Boil Pt.	TDS	Antifreeze %	Freeze Pt.	ELC	Hardness	Odor	Mag Precip	Non-Mag Precip	Fuel	Foam	Oil
202000000652	12	Green	Clear	10.60			52	-40		<10	None	None	None	None	None	None
202000000651	11	Green	Clear	10.50			50	-32		<10	None	None	None	None	None	None

Advanced Fluid Properties and Contaminants (ppm)									
Lab ID	Nitrates	Phosphate	Sulfate	Oxalate	Acetate	Formate	Glycolate	Fluoride	Chloride
202000000652	906	6674	11	<5	<5	14	<5	<5	71
202000000651	850	6144	12	<5	<5	13	<5	<5	77