

OIL ANALYSIS REPORT

Sample Rating Trend





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

			Nov2022	Nov2023		
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0078498	PC0054311	
Sample Date		Client Info		14 Nov 2023	14 Nov 2022	
Machine Age	kms	Client Info		29130	21616	
Oil Age	kms	Client Info		9000	7000	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	34	28	
Chromium	ppm	ASTM D5185(m)	>20	2	2	
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	
Titanium	ppm	ASTM D5185(m)		0	<1	
Silver	ppm	ASTM D5185(m)	>3	<1	0	
Aluminum	ppm	ASTM D5185(m)	>20	3	3	
Lead	ppm	ASTM D5185(m)	>40	8	3	
Copper	ppm	ASTM D5185(m)	>330	3	8	
Tin	ppm	ASTM D5185(m)	>15	2	2	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	4	1	
Barium	ppm	ASTM D5185(m)	10	<1	0	
Molybdenum	ppm	ASTM D5185(m)	100	63	60	
Manganese	ppm	ASTM D5185(m)		<1	<1	
Magnesium	ppm	ASTM D5185(m)	450	1002	1008	
Calcium	ppm	ASTM D5185(m)	3000	1106	1160	
Phosphorus	ppm	ASTM D5185(m)	1150	1012	1110	
Zinc	ppm	ASTM D5185(m)	1350	1234	1274	
Sulfur	ppm	ASTM D5185(m)	4250	2383	2514	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7	8	
Sodium	ppm	ASTM D5185(m)	>158	5	5	
Potassium	ppm	ASTM D5185(m)	>20	<1	0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1	0.6	
Nitration	Abs/cm	ASTM D7624*	>20	10.4	10.3	
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.9	24.3	



120 CSt (40°C) 110 100 B

120-CSt (40-C) SS (40-C) Ba

OIL ANALYSIS REPORT

Viscosity @ 40°C		FLUID DEGRA	DATION	method	limit/ba	se	current	history1	history2
130-		Oxidation	Abs/.1mm	ASTM D7414*	>25		19.1	19.0	
120 Base		VISUAL		method	limit/ba	se	current	history1	history2
.110 -		Emulsified Water	scalar	Visual*	>0.2		NEG	NEG	
100		Free Water	scalar	Visual*			NEG	NEG	
80 Abnormal		FLUID PROPE	RTIES	method	limit/ba	se	current	history1	history2
v14/22	v14/23	Visc @ 40°C	cSt	ASTM D7279(m)	115		101	99.0	
No	No	Visc @ 100°C	cSt	ASTM D7279(m)	14.4		13.7	13.2	
Viscosity @ 40°C		Viscosity Index (VI)	Scale	ASTM D2270*	126		136	131	
130-		GRAPHS							
120 Base		Iron (ppm)				100-	Lead (ppm)		
.110-		200 - Severe				80	Severe		
100		_ 150 -				60			
Abnormal		Abnormal				년 40 -	Abnormal		
14/22		50 -				20			
Nov						0	5		
		ov14/2			ov14/2		ov14/2		ov14/2
		≥ Aluminum (ppm)			Z		Chromium (pr	om)	Z
		50 Same				⁵⁰			
		40 - C			-	40	Severe		
		30 - Abnormal				а 30 - Ша	Abnormal		
		20 0			-	20-			
						0			
		14/22			14/23 -	0-	14/22 -		14/23 -
		Nov			Nov		Nov Nov		Nov
		400 Severe				⁸⁰ T	Silicon (ppm)		
		300				60 -	-		
		E 200				E 40			
		8 200				8.40	Abnormal		
		100				20-			
					/23	0	/22		/23
		Nov14			Nov14		Nov14		Nov14
		Viscosity @ 100°C	2				Soot %		
		17 Abnormal				5.0	Severe		
		16 2 11				4.0 -	· · · · · · · · · · · · · · · · · · ·		
		00013 Base				-0.8 go	Abnormal		
		13 Abnormal				1.0			
						0.0			
		ov14/2			ov14/2		0v14/2		ov14/2
	Laboratory Sample No. Lab Number Unique Number Test Package discuss this sample report, st denoted (*) outside scope	: WearCheck - C8-11 : PC0078498 : 02597434 : 5682514 : MOB 1 (Additional contact Customer Serv of accreditation. (m) m	75 Apple Received Diagnose Diagnost Tests: KV rice at 1-8 pethod mo	by Line, Burl i : 20 I ician : Cev (40, VI) 00-268-2131 odified. (e) te	lington, Ol Nov 2023 Nov 2023 rin Marsor 1. sted at ex	N L7 n	'L 5H9 MECHAN (jenr al lab.	HAMILTC ICAL DIV., 177 BAY H Contact: Jenny-L ıy-lynn.pellegrin T`	DN FIRE DEPT STREET NORTH AMILTON, ON CA L8R 2P8 .ynn Pellegrino p@hamilton.ca (905)546-2424
Val	lidity of results and interpret	ation are based on the	sample a	nd informatio	on as supp	blied		F:	(905)961-9116

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