



WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Machine Id
441831
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (19 QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0034943	IL0031165	IL0028235
Sample Date		Client Info		30 Jan 2024	31 Aug 2023	25 Nov 2022
Machine Age	mls	Client Info		153516	145050	126740
Oil Age	mls	Client Info		8466	18310	8760
Filter Age	mls	Client Info		8466	18310	8760
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	46	108	52
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	12	15	11
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	2	2	1
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

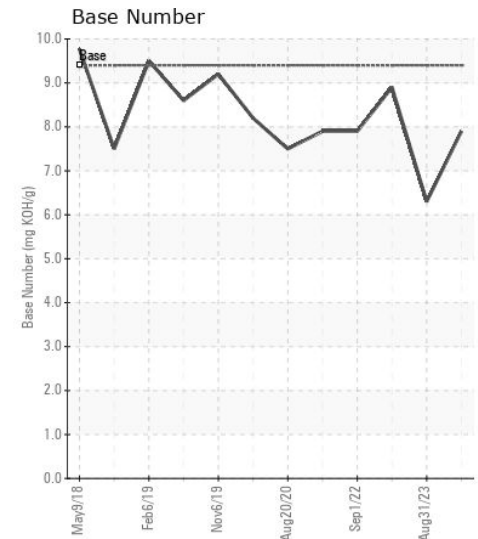
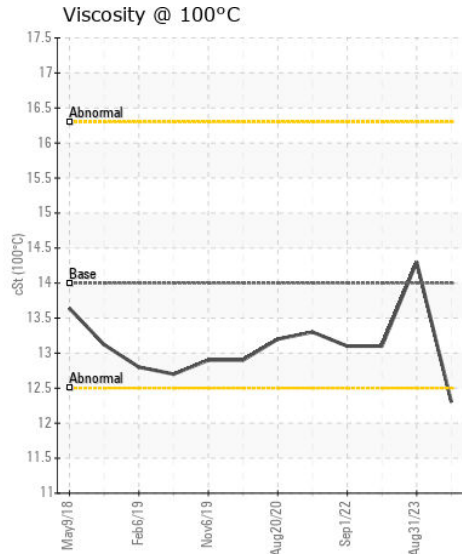
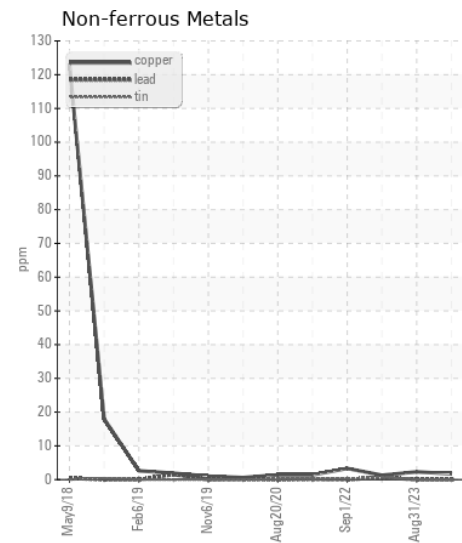
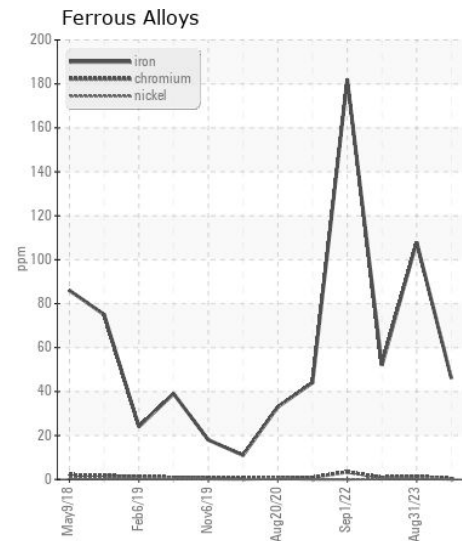
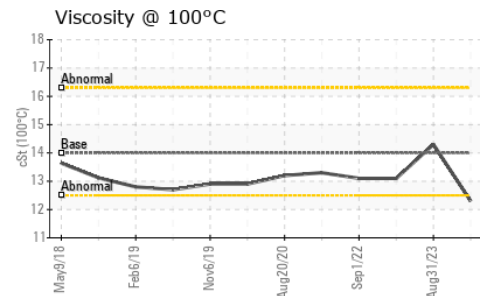
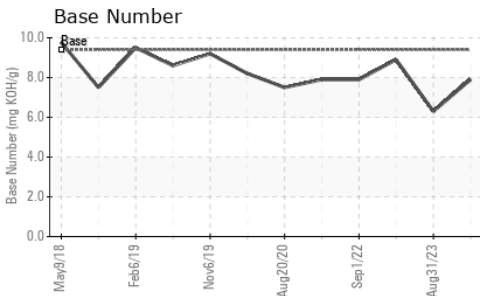
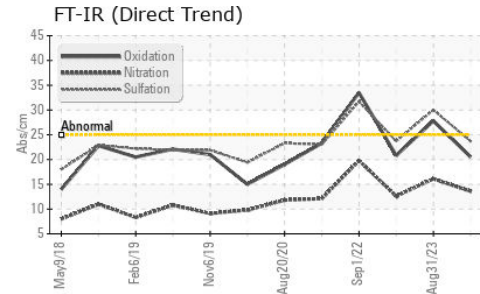
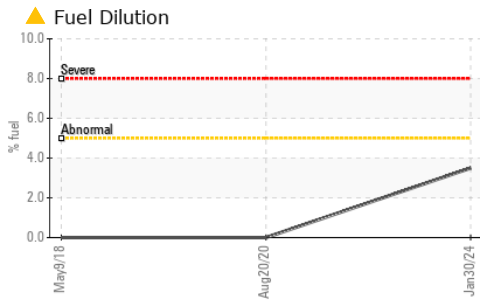
Light fuel dilution occurring.

Silicon	ppm	ASTM D5185m	>25	6	8	6
Potassium	ppm	ASTM D5185m	>20	2	6	6
Fuel	%	ASTM D3524	>5	▲ 3.5	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.5	2	1
Nitration	Abs/cm	*ASTM D7624	>20	13.6	16.1	12.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	30.0	23.7
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<1	0	2
Boron	ppm	ASTM D5185m	0	5	<1	10
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	65	68	64
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	933	986	910
Calcium	ppm	ASTM D5185m		1094	1148	1246
Phosphorus	ppm	ASTM D5185m		1003	966	1028
Zinc	ppm	ASTM D5185m		1226	1277	1261
Sulfur	ppm	ASTM D5185m		3347	3062	3681
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.5	27.8	20.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	7.9	6.3	8.9
Visc @ 100°C	cSt	ASTM D445	14	12.3	14.3	13.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0034943
Lab Number : 06158298
Unique Number : 10993721
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)
Received : 23 Apr 2024
Tested : 25 Apr 2024
Diagnosed : 25 Apr 2024 - Sean Felton

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To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)