

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id **17578** Component **Diesel Engine** Fluid **MOBIL 15W40 (--- QTS)**

RECOMMENDATION

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

WEAR

All component wear rates are normal.

CONTAMINATION

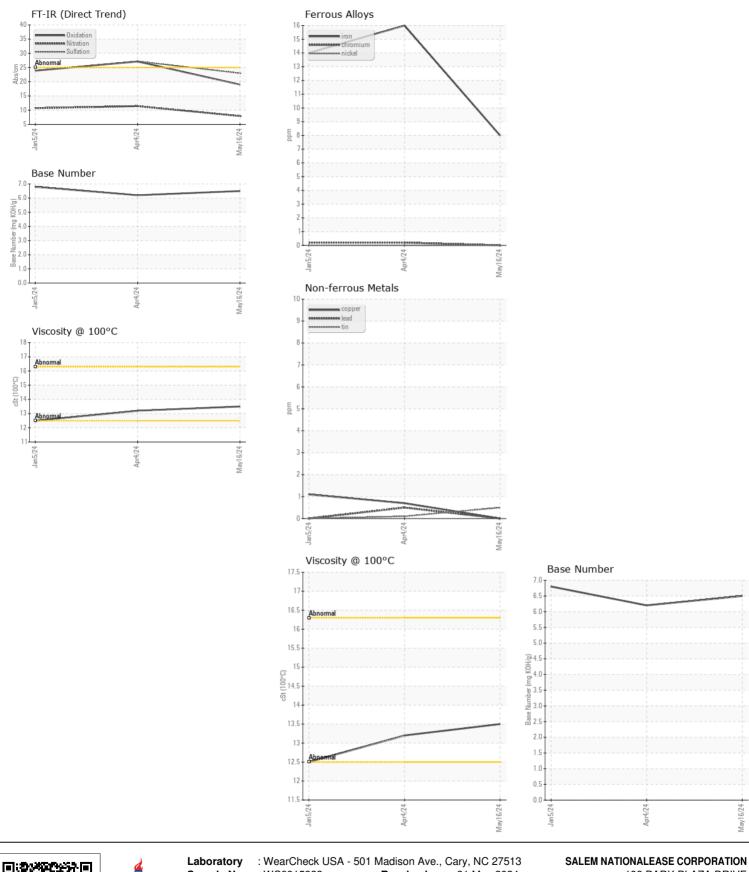
FLUID CONDITION

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

The BN result indicates that there is suitable alkalinity remaining in the

oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0915933	WC0915959	WC0882279
Sample Date		Client Info		16 May 2024	04 Apr 2024	05 Jan 2024
Machine Age	mls	Client Info		218586	209313	191089
Oil Age	mls	Client Info		4135	0	17642
Filter Age	mls	Client Info		4135	0	17642
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
				•	4.0	
Iron	ppm	ASTM D5185m	>100	8	16	14
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	5	2
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	0	<1	1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m	NONE	0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	5	5	4
Potassium	ppm	ASTM D5185m	>20	10	29	12
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.9	11.4	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	27.2	23.9
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
				_		
Sodium	ppm	ASTM D5185m	>118	5	8	6
Boron	ppm	ASTM D5185m		325	202	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		91	127	68
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		448	694	1040
Calcium	ppm	ASTM D5185m		1404	1662	1190
Phosphorus	ppm	ASTM D5185m		1033	720	1091
Zinc	ppm	ASTM D5185m		1212	874	1337
Sulfur	ppm	ASTM D5185m	05	3447	2837	2980
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0	27.1	23.9
Base Number (BN)	mg KOH/g	ASTM D2896		6.5	6.2	6.8
Visc @ 100°C	cSt	ASTM D445		13.5	13.2	12.5



Sample No. Received 198 PARK PLAZA DRIVE : WC0915933 : 31 May 2024 Lab Number : 06196460 Tested WINSTON SALEM, NC : 03 Jun 2024 Diagnosed Unique Number : 11058583 : 03 Jun 2024 - Wes Davis US 27105 Test Package : FLEET **Contact: Audrey Hopkins** Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. Audrey.Hopkins@salemcorp.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (336)767-9642 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: x:

Contact/Location: Audrey Hopkins - SALWIN Page 2 of 2