WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

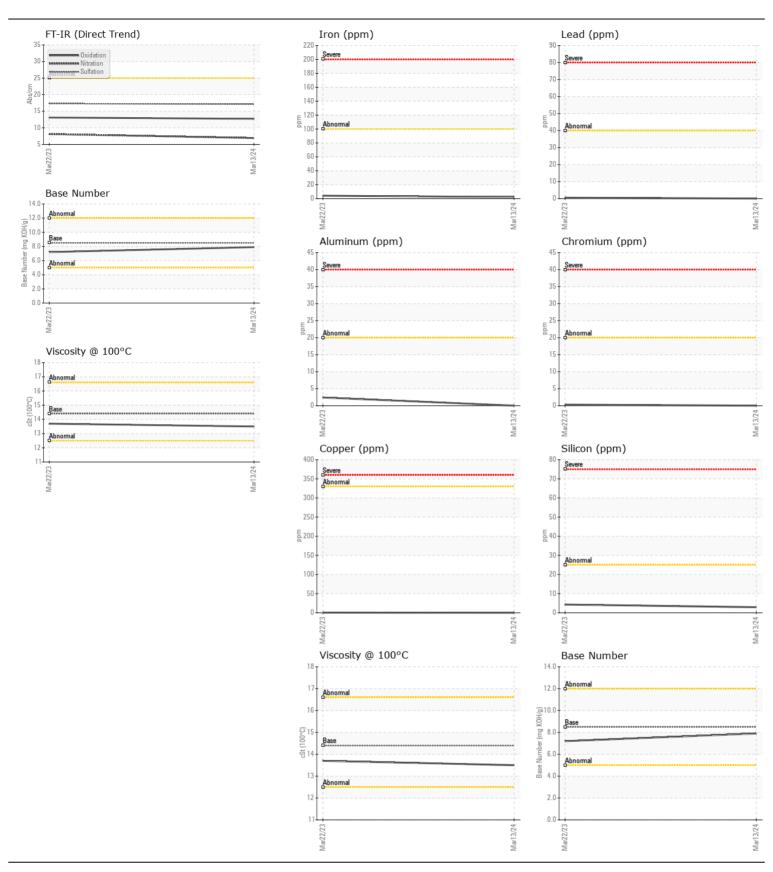
Machine Id

MTL 75BFMII 3251-02-06

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		DC0026670	DC0026456	
	Sample Date		Client Info		13 Mar 2024	22 Mar 2023	
	Machine Age	yrs	Client Info		0	1251	
	Oil Age	yrs	Client Info		1	51	
	Filter Age	yrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
/EAR	Iron	ppm	ASTM D5185m	>100	2	4	
	Chromium	ppm	ASTM D5185m		0	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	\3	0	0	
	Aluminum	ppm	ASTM D5185m		0	2	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		0	<1	
	Tin	ppm	ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m	710	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	ppm	ASTM D5185m		3	4	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		<1	1	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	6.9	8.1	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.1	17.3	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m	>158	1	1	
	Boron	ppm	ASTM D5185m		36	90	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	0	
	Molybdenum	ppm	ASTM D5185m	100	27	86	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m	450	277	29	
	Calcium	ppm	ASTM D5185m		2366	2142	
	Phosphorus	ppm	ASTM D5185m	1150	1108	1012	
	Zinc	ppm	ASTM D5185m	1350	1288	1182	
	Sulfur	ppm	ASTM D5185m		4452	3792	
	Oxidation	Abs/.1mm	*ASTM D7414		12.7	13.1	
	Base Number (BN)				7.9	7.2	





Laboratory Sample No.

Lab Number : 06146962

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DC0026670

Received **Tested** Unique Number : 10977040

Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 12 Apr 2024 : 15 Apr 2024 : 15 Apr 2024 - Wes Davis

CRANEWORKS INC - SPECIAL PROJECTS 11089 LEADBETTER ROAD

ASHLAND, VA US 23005 Contact: JOSH DIXON

jdixon@vacraneworks.com

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. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: