

Machine Id 8763	
Component Diesel Engine	
DIESEL ENGINE OIL SAE 15W40 ( GAL)	

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

.....

-----

## WEAR

All component wear rates are normal.

## CONTAMINATION

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.

	CON	ודוח	
		וווס	

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

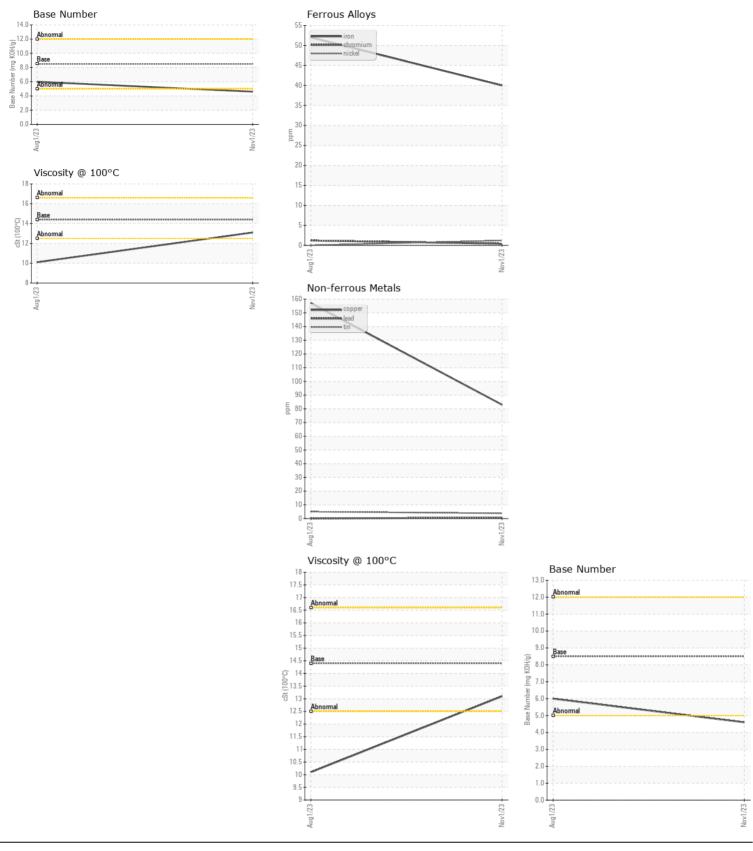
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		NL0001696	NL0001737	
Sample Date		Client Info		01 Nov 2023	01 Aug 2023	
Machine Age	mls	Client Info		76952	38035	
Oil Age	mls	Client Info		45000	45000	
Filter Age	mls	Client Info		45000	45000	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ATTENTION	
Iron	ppm	ASTM D5185m	>100	40	52	
Chromium	ppm	ASTM D5185m	>20	<1	1	
Nickel	ppm	ASTM D5185m	>4	1	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m	>20	10	32	
Lead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	83	157	
Tin	ppm	ASTM D5185m	>15	4	5	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>25	11	62	
Potassium		ASTM D5185m	>20	29	85	
Fuel	ppm	WC Method	>20	29 <1.0	0.5	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method	>0.2	NEG	NEG	
Soot %	%	*ASTM D7844	>3	1.2	0.9	
Nitration	Abs/cm	*ASTM D7624	>20	11.1	11.6	
Sulfation	Abs/.1mm	*ASTM D7024	>30	23.8	24.5	
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		*Visual	>0.2	NEG	NEG	
	ooului					
Sodium	ppm	ASTM D5185m	>158	0	1	
Boron	ppm	ASTM D5185m	250	2	52	
Barium	ppm	ASTM D5185m	10	<1	0	
Molybdenum	ppm	ASTM D5185m	100	71	118	
Manganese	ppm	ASTM D5185m		1	2	
Magnesium	ppm	ASTM D5185m	450	859	770	
Calcium	ppm	ASTM D5185m	3000	1121	1542	
Phosphorus	ppm	ASTM D5185m	1150	875	693	
Zinc	ppm	ASTM D5185m	1350	1111	902	
Sulfur	ppm	ASTM D5185m	4250	2261	2912	
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.6	24.0	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	4.6	6.0	
Visc @ 100°C	cSt	ASTM D445	14.4	13.1	▲ 10.1	

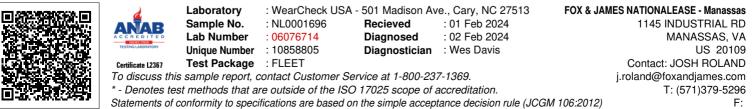
CONTAMINATION

WEAR

NORMAL

NORMAL





Contact/Location: JOSH ROLAND - FOXMAN