

OIL ANALYSIS REPORT

Sample Rating Trend





200300 Component **Diesel Engine** Fluic

TEST OIL GOLD 4 (40

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

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.

Fluid Condition

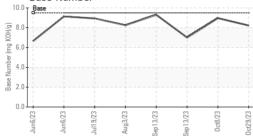
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

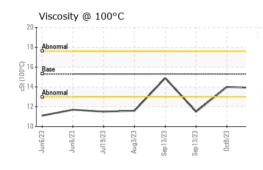
LTR)		Jun2023	un2023 Jul2023 Aug20	23 Sep2023 Sep2023 Oct2023	0ct2023	
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864677	WC0864665	WC0852047
Sample Date		Client Info		29 Oct 2023	08 Oct 2023	13 Sep 2023
Machine Age	kms	Client Info		218325	204587	185746
Oil Age	kms	Client Info		32579	18843	65349
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	23	13	41
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>15	2	<1	2
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	8	6	15
Lead	ppm	ASTM D5185(m)	>40	<1	<1	2
Copper	ppm	ASTM D5185(m)	>330	13	10	51
Tin	ppm	ASTM D5185(m)	>15	<1	0	2
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	1	1	2
Barium	ppm	ASTM D5185(m)	0	<1	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	70	60	63
Manganese	ppm	ASTM D5185(m)		<1	0	1
Magnesium	ppm	ASTM D5185(m)	950	1132	975	971
Calcium	ppm	ASTM D5185(m)	980	1220	1050	1077
Phosphorus	ppm	ASTM D5185(m)	1100	1126	983	930
Zinc	ppm	ASTM D5185(m)	1150	1372	1174	1146
Sulfur	ppm	ASTM D5185(m)	2600	2841	2525	2133
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	3	7
Sodium	ppm	ASTM D5185(m)		3	2	3
Potassium	ppm	ASTM D5185(m)	>20	10	7	33
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.6	0.3	1
Nitration	Abs/cm	ASTM D7624*	>20	8.4	7.0	10.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.1	19.1	22.9

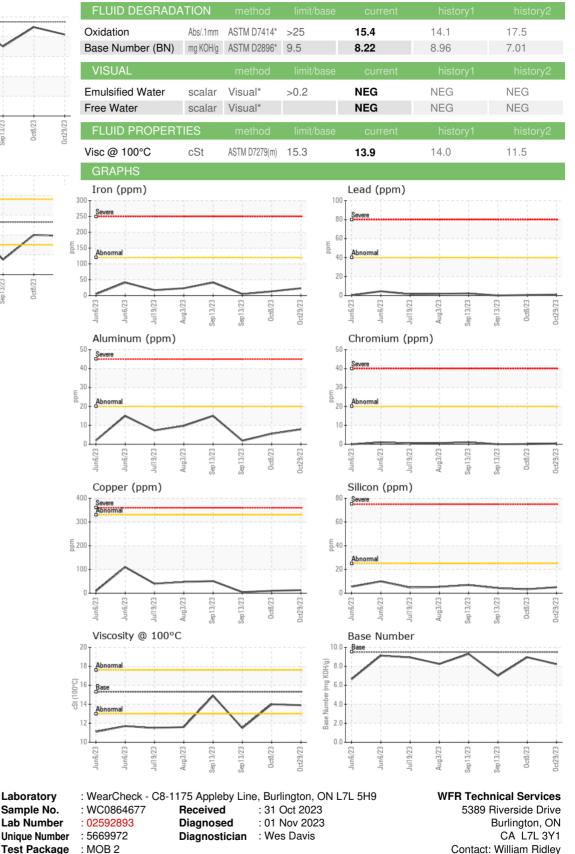


OIL ANALYSIS REPORT

Base Number







Laboratory Test Package : MOB 2 To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

CALA

ISO 17025:2017 Accredited

Laboratory

Sample No.

Lab Number

T:

F:

wfr.technical.services@gmail.com