TRAAP
Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL 3434-20
Component
Diesel Engine
Fluid
TRC PRO-SPEC V SYN BLEND 10W30 (40 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

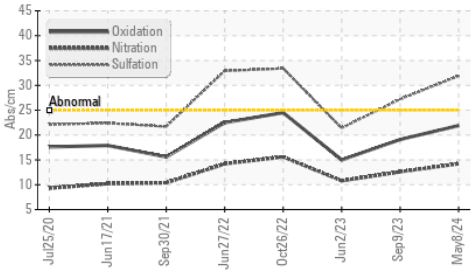
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

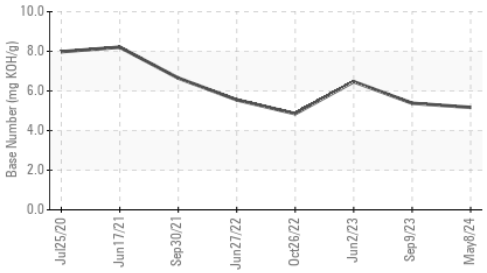
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02637648	TR02602223	TR02567948
Sample Date		Client Info		08 May 2024	09 Sep 2023	02 Jun 2023
Machine Age	kms	Client Info		213550	188501	162169
Oil Age	kms	Client Info		75269	50220	23888
Filter Age	kms	Client Info		25049	26332	23888
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>100	78	48	31
Chromium	ppm	ASTM D5185(m)	>20	2	2	1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	7	5	4
Lead	ppm	ASTM D5185(m)	>40	10	5	2
Copper	ppm	ASTM D5185(m)	>330	18	16	12
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	10	9	7
Potassium	ppm	ASTM D5185(m)	>20	11	8	5
Fuel		WC Method	>2.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	2.5	1.8	1
Nitration	Abs/cm	ASTM D7624*	>20	14.2	12.6	10.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	31.9	27.2	21.4
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		6	5	4
Boron	ppm	ASTM D5185(m)		10	7	24
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		96	95	92
Manganese	ppm	ASTM D5185(m)		1	<1	<1
Magnesium	ppm	ASTM D5185(m)		68	68	26
Calcium	ppm	ASTM D5185(m)		2283	2244	2268
Phosphorus	ppm	ASTM D5185(m)		986	994	1106
Zinc	ppm	ASTM D5185(m)		1210	1170	1221
Sulfur	ppm	ASTM D5185(m)		2966	3030	3252
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.9	19.1	15.0
Base Number (BN)	mg KOH/g	ASTM D2896*		5.17	5.38	6.47
Visc @ 100°C	cSt	ASTM D7279(m)		12.2	12.1	11.7

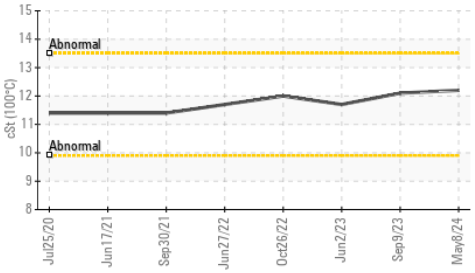
FT-IR (Direct Trend)



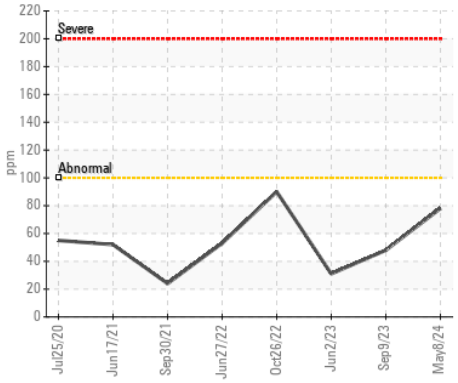
Base Number



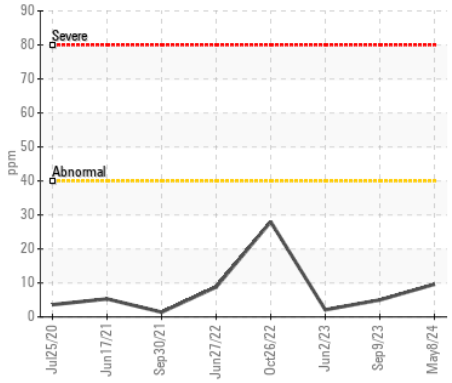
Viscosity @ 100°C



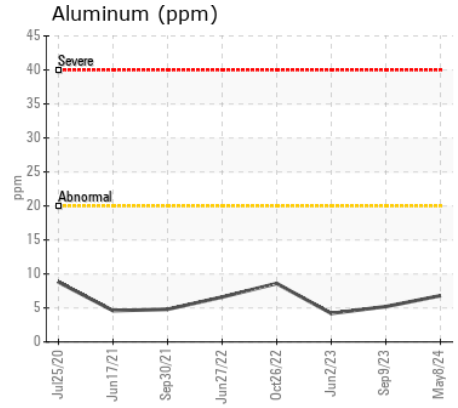
Iron (ppm)



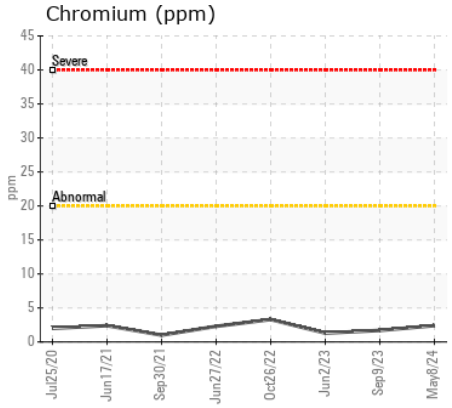
Lead (ppm)



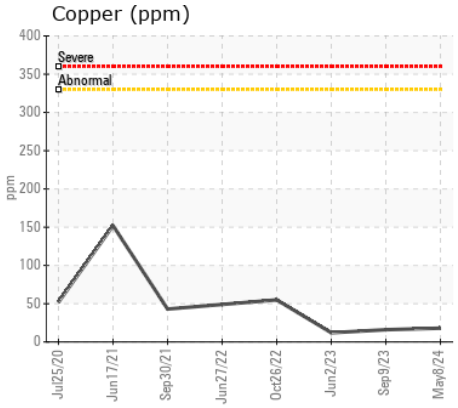
Aluminum (ppm)



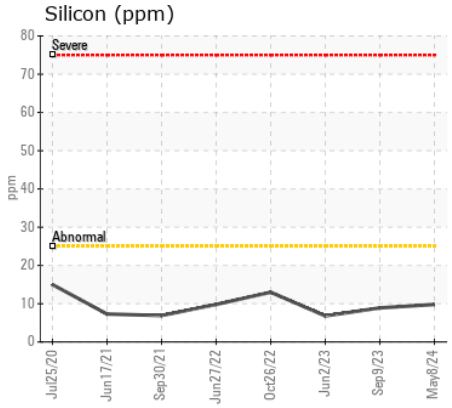
Chromium (ppm)



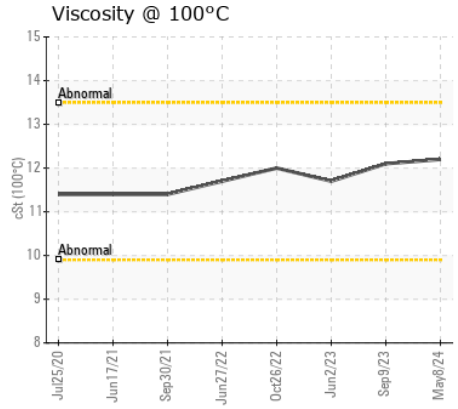
Copper (ppm)



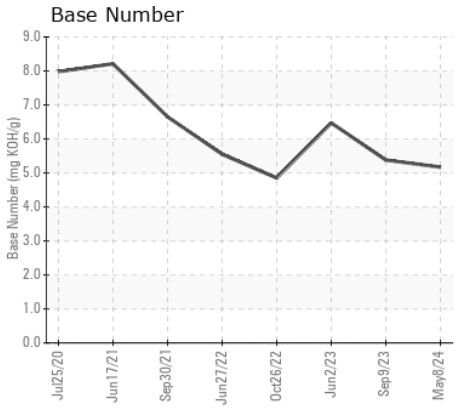
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: TR02637648	**Received**	: 27 May 2024
Lab Number	: 02637648	**Tested**	: 28 May 2024
Unique Number	: 5786810	**Diagnosed**	: 28 May 2024 - Kevin Marson
Test Package	: MOB 2		

To discuss this sample report, contact Customer Service at 1-800-827-0711.
** - 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)

WILCO CONTRACTORS
3031 ARTHUR ST
ROSSLYN, ON
CA P7K 0P2
Contact: David Cramer

T: (807)475-5951
F: (807)475-8619