



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 73
 Component
Diesel Engine
 Fluid
TRC MOLY XL PROSPEC III 15W40 (42 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02641900	TR02609230	TR02573676
Sample Date		Client Info		31 May 2024	10 Jan 2024	27 Jul 2023
Machine Age	kms	Client Info		2798692	2696888	2581127
Oil Age	kms	Client Info		101804	115761	95601
Filter Age	kms	Client Info		101804	115761	95601
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	56	63	41
Chromium	ppm	ASTM D5185(m)	>6	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	3	3	3
Lead	ppm	ASTM D5185(m)	>10	2	2	2
Copper	ppm	ASTM D5185(m)	>150	25	9	7
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

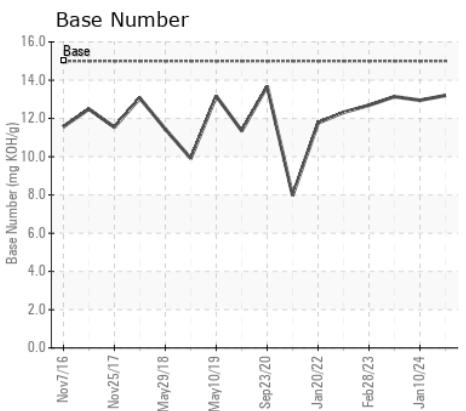
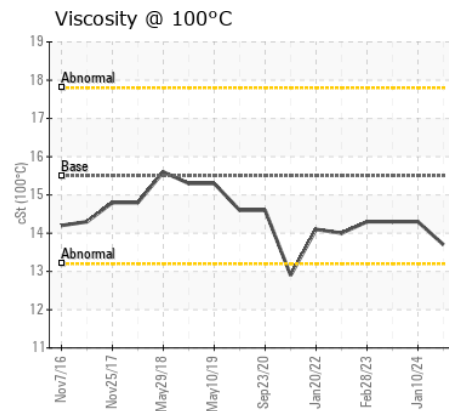
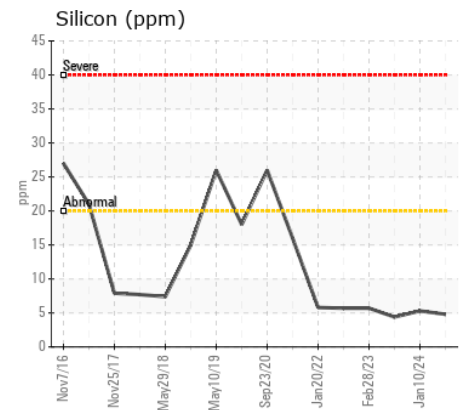
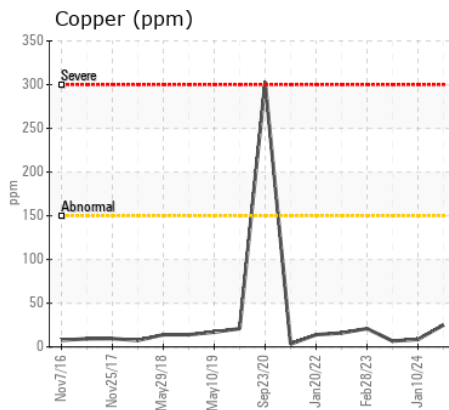
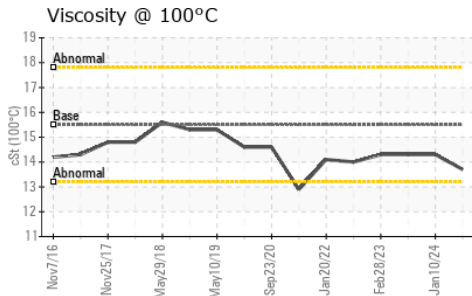
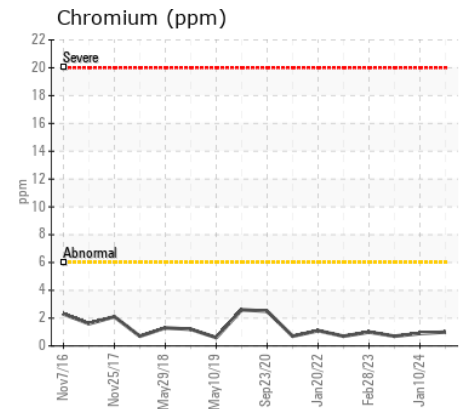
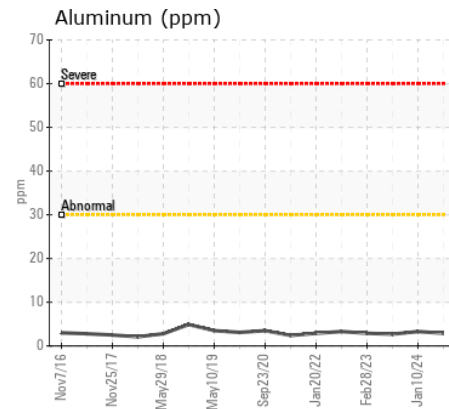
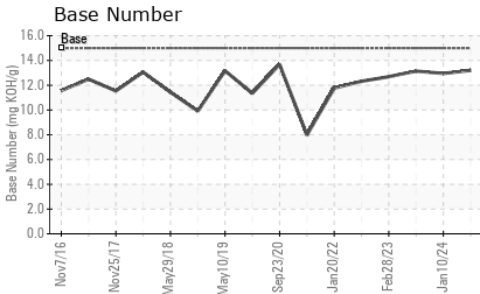
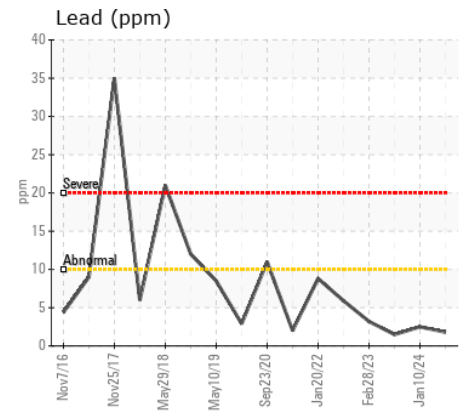
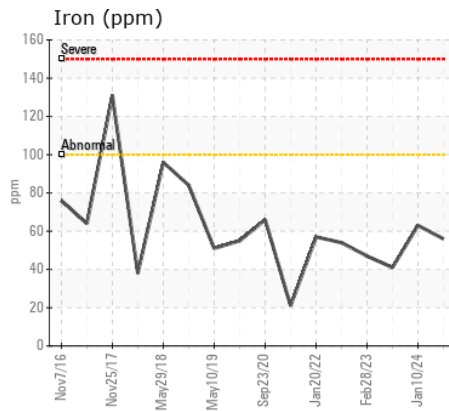
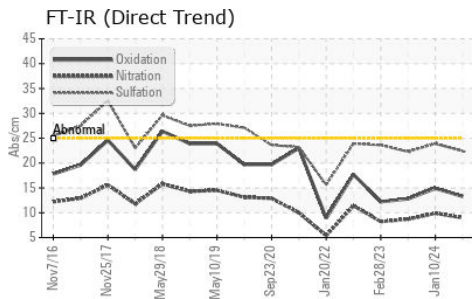
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	5	5	4
Potassium	ppm	ASTM D5185(m)	>20	1	2	2
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	0.7	0.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	9.0	9.9	8.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.4	23.9	22.3
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185(m)		3	3	3
Boron	ppm	ASTM D5185(m)		2	8	2
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		2	12	4
Manganese	ppm	ASTM D5185(m)		<1	0	<1
Magnesium	ppm	ASTM D5185(m)		24	24	18
Calcium	ppm	ASTM D5185(m)	4500	5172	5068	4883
Phosphorus	ppm	ASTM D5185(m)		896	967	1026
Zinc	ppm	ASTM D5185(m)	1400	1096	1145	1140
Sulfur	ppm	ASTM D5185(m)		3173	3523	3404
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.3	14.9	12.8
Base Number (BN)	mg KOH/g	ASTM D2896*	15	13.20	12.95	13.14
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	13.7	14.3	14.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02641900
Lab Number : 02641900
Unique Number : 5799439
Test Package : MOB 2

Received : 14 Jun 2024
Tested : 17 Jun 2024
Diagnosed : 17 Jun 2024 - Wes Davis

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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)