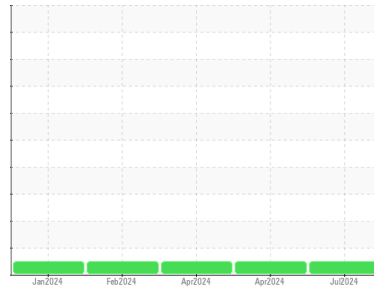


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
Machine Id
EAST CHICAGO OPERATIONS
Component
SENNEBOGEN 835 MH-92
Fluid
Right Diesel Engine
PETRO CANADA DURON HP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: changed and serviced

1000 hr pm)

Wear

All component wear rates are normal.

Contamination

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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0113779	PCA0113808	PCA0113807
Sample Date	Client Info	15 Jul 2024	26 Apr 2024	12 Apr 2024
Machine Age	hrs Client Info	3400	2876	2134
Oil Age	hrs Client Info	523	743	0
Oil Changed	Client Info	Changed	Changed	N/A
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0
Water	WC Method >0.2	NEG	NEG	NEG
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	6	4	9
Chromium	ppm ASTM D5185m >20	<1	0	<1
Nickel	ppm ASTM D5185m >4	<1	0	0
Titanium	ppm ASTM D5185m	<1	0	0
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >20	5	1	4
Lead	ppm ASTM D5185m >40	<1	0	0
Copper	ppm ASTM D5185m >330	1	<1	<1
Tin	ppm ASTM D5185m >15	<1	0	0
Vanadium	ppm ASTM D5185m	0	<1	<1
Cadmium	ppm ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2	0	0
Barium	ppm ASTM D5185m	<1	0	0
Molybdenum	ppm ASTM D5185m	59	60	60
Manganese	ppm ASTM D5185m	<1	0	<1
Magnesium	ppm ASTM D5185m	941	989	995
Calcium	ppm ASTM D5185m	1077	1082	1097
Phosphorus	ppm ASTM D5185m	948	1069	1040
Zinc	ppm ASTM D5185m	1256	1238	1243
Sulfur	ppm ASTM D5185m	3031	3615	3410

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	4	2	3
Sodium	ppm ASTM D5185m	0	<1	1
Potassium	ppm ASTM D5185m >20	16	1	6

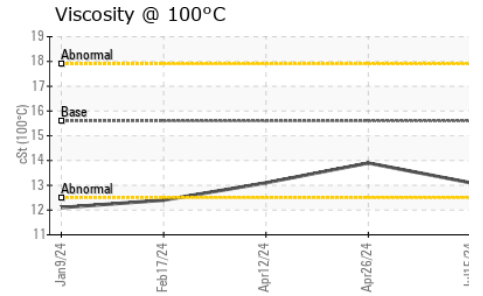
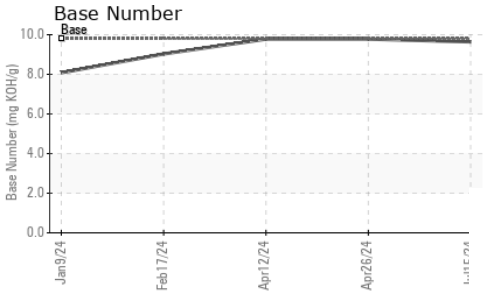
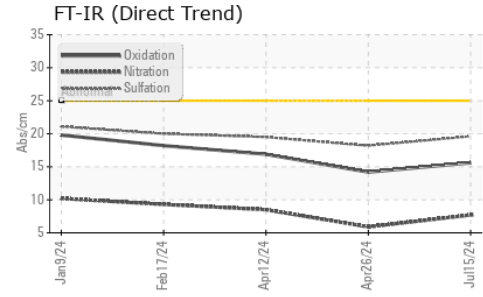
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.1	0.1	0.2
Nitration	Abs/cm *ASTM D7624 >20	7.7	5.9	8.5
Sulfation	Abs/.1mm *ASTM D7415 >30	19.6	18.2	19.5

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	15.6	14.2	16.9
Base Number (BN)	mg KOH/g ASTM D2896 9.8	9.64	9.78	9.78

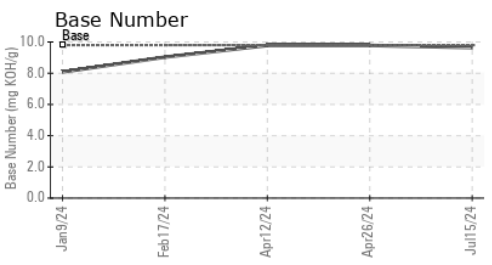
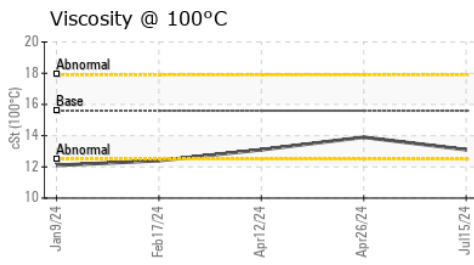
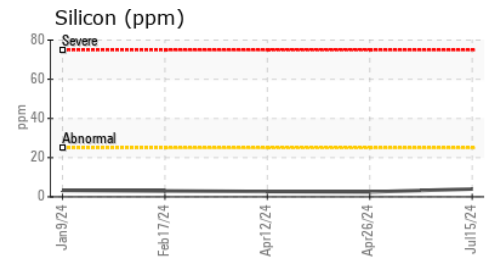
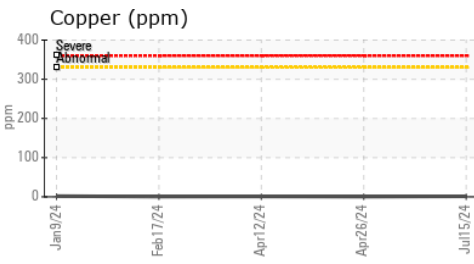
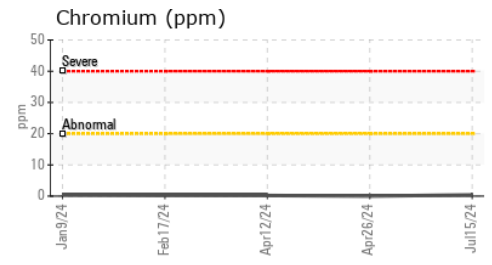
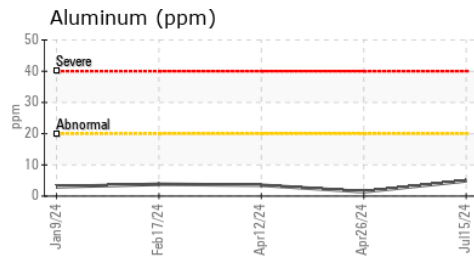
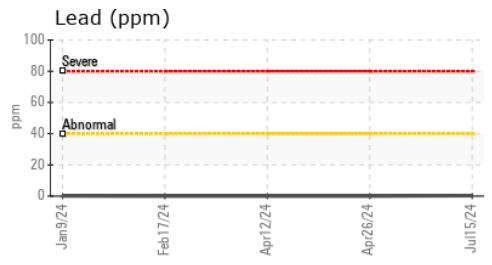
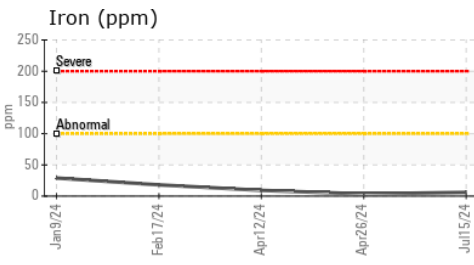
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.6	13.1	13.9

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0113779 **Received** : 17 Jul 2024
Lab Number : **06239326** **Tested** : 18 Jul 2024
Unique Number : 11128160 **Diagnosed** : 19 Jul 2024 - Sean Felton
Test Package : MOB 2

SCRAP METAL SERVICES
 415 E 151ST STREET
 EAST CHICAGO, IN
 US 46312
 Contact: DAN GERTLER
 dgertler@scrapmetalservices.com
 T: (312)771-4999
 F:

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.

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