



GREASE ANALYSIS

Sample Rating Trend



NORMAL



Machine Id

BASELINE

Component

Reference Grease

Fluid

PETRO CANADA PRECISION XL EP2 (--- GAL)

DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0946884	---	---
Sample Date	Client Info			05 Jun 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Grease Age	hrs	Client Info		0	---	---
Grease Serviced	Client Info			N/A	---	---
Sample Status				NORMAL	---	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>200	0	---	---
Iron	ppm	ASTM D5185(m)	>250	1	---	---
Chromium	ppm	ASTM D5185(m)	>10	0	---	---
Nickel	ppm	ASTM D5185(m)	>5	0	---	---
Cadmium	ppm	ASTM D5185(m)		0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Lead	ppm	ASTM D5185(m)	>25	0	---	---
Copper	ppm	ASTM D5185(m)	>75	0	---	---
Tin	ppm	ASTM D5185(m)	>5	0	---	---
Silver	ppm	ASTM D5185(m)	>5	0	---	---

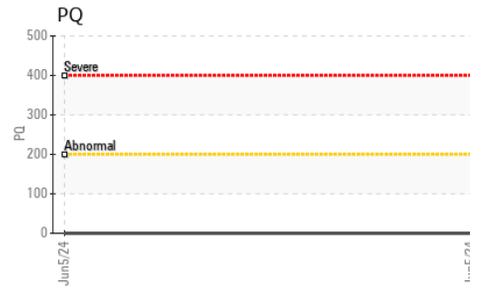
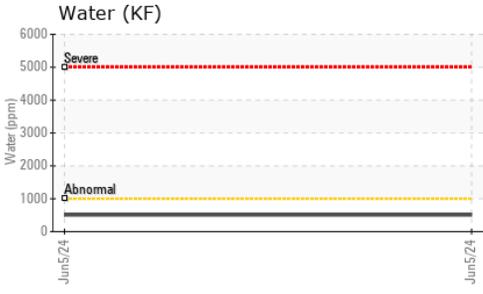
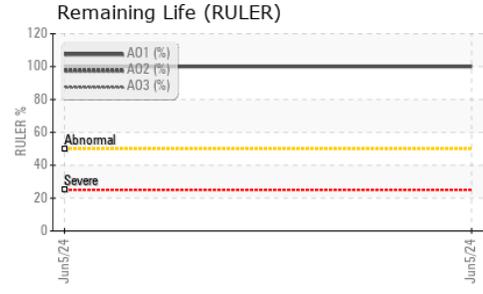
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	20	22	---	---
Magnesium	ppm	ASTM D5185(m)	0	0	---	---
Manganese	ppm	ASTM D5185(m)	0	0	---	---
Molybdenum	ppm	ASTM D5185(m)	0	<1	---	---
Phosphorus	ppm	ASTM D5185(m)	25	24	---	---
Zinc	ppm	ASTM D5185(m)	0	<1	---	---
Antimony	ppm	ASTM D5185(m)	15	15	---	---

THICKENER/SOAP		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	0	<1	---	---
Barium	ppm	ASTM D5185(m)	0	0	---	---
Calcium	ppm	ASTM D5185(m)	0	<1	---	---
Sodium	ppm	ASTM D5185(m)	2	2	---	---
Lithium	ppm	ASTM D5185(m)	300	303	---	---
Sulfur	ppm	ASTM D5185(m)	700	696	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>150	0	---	---
Potassium	ppm	ASTM D5185(m)		22	---	---
Water	%	ASTM D6304*	>0.1	0.050	---	---
ppm Water	ppm	ASTM D6304*	>1000	508	---	---

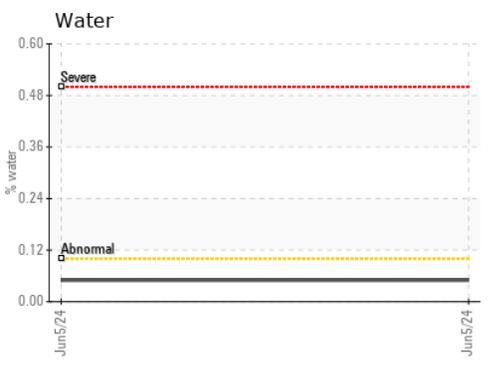
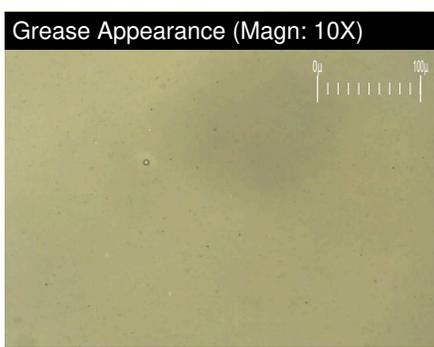
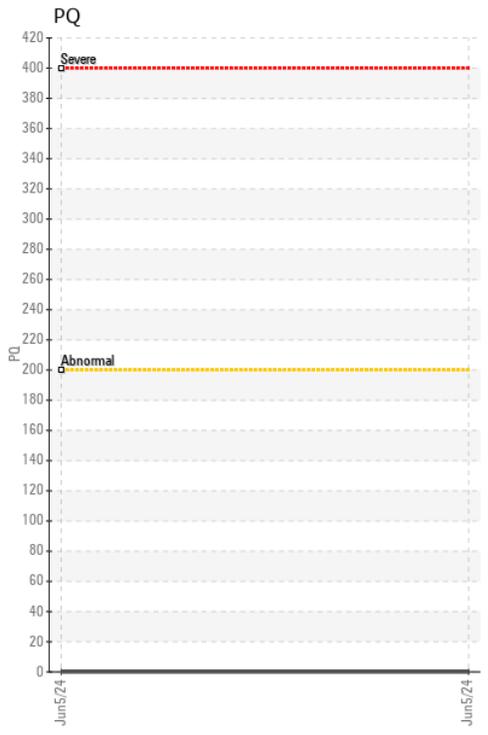
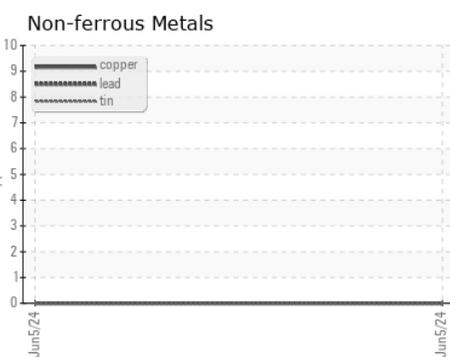
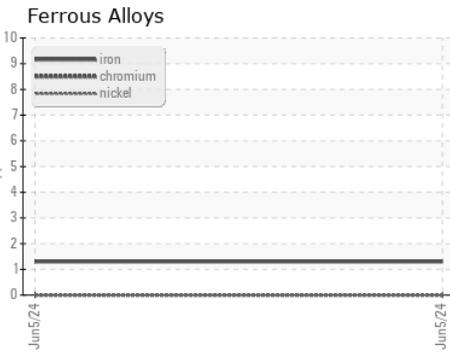
GREASE CONDITION		method	limit/base	current	history1	history2
Grease Color	Visual*		Brown	Tan	---	---
Texture	In-house*		Stringy	Stringy	---	---
NLGI Consistency	NLGI Scale	SKF Method*	2	3	---	---
Anti-Oxidant 1	%	ASTM D6971*	<25%	100	---	---

GREASE ANALYSIS



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image
PrtFilter				no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0946884 **Received** : 10 Jun 2024
Lab Number : 02640952 **Tested** : 04 Jul 2024
Unique Number : 5798491 **Diagnosed** : 04 Jul 2024 - Bill Quesnel
Test Package : GRS 3 (Additional Tests: BottomAnalysis)

CANADIAN COAST GUARD
 CCGS GRIFFON, PO BOX 1000, 401 KING ST.W
 Prescott, ON
 CA K6V 5T3
 Contact: Mike Rankin
 mike.rankin@dfo-mpo.gc.ca
 T: (289)442-0810
 F: (519)383-1994

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.



FERROGRAPHY REPORT

Machine Id

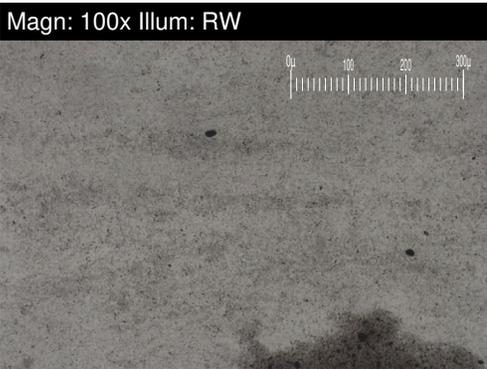
BASELINE

Component

Reference Grease

Fluid

PETRO CANADA PRECISION XL EP2 (--- GAL)



FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		1		
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		1		
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*				
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*				
Ferrous Other	Scale 0-10	ASTM D7684*				
Nonferrous Rubbing	Scale 0-10	ASTM D7684*				
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*				
Nonferrous Other	Scale 0-10	ASTM D7684*				
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Lubricant Degradation	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*		2		
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*				

WEAR

{not applicable}

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